

ABSTRACT

A transmission system having a plurality of gear ratios (15, 17), ~~a selector means (13)~~ assembly for selectively engaging the gear ratios, and a control system ~~including means for measuring~~ arranged to measure the amount of deformation caused by torque in the transmission system (63, 64) in at least one static component or assembly (50) that is deformed due to torque in the transmission system , ~~and means for controlling the torque in the transmission (2, 24)~~, wherein the control system is arranged to measure deformation and to adjust the torque in the transmission system according to the measured deformation and a known relationship between the gear ratios, wherein the transmission system is arranged such that selection of a new gear ratio occurs almost instantaneously without substantial power interruption.